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(71) Applicants (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL). **KONICA MINOLTA OPTO, INC.** [JP/JP]; 2970 Ishikawa-machi, Hachioji-shi, Tokyo (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MORI, Nobuyoshi**

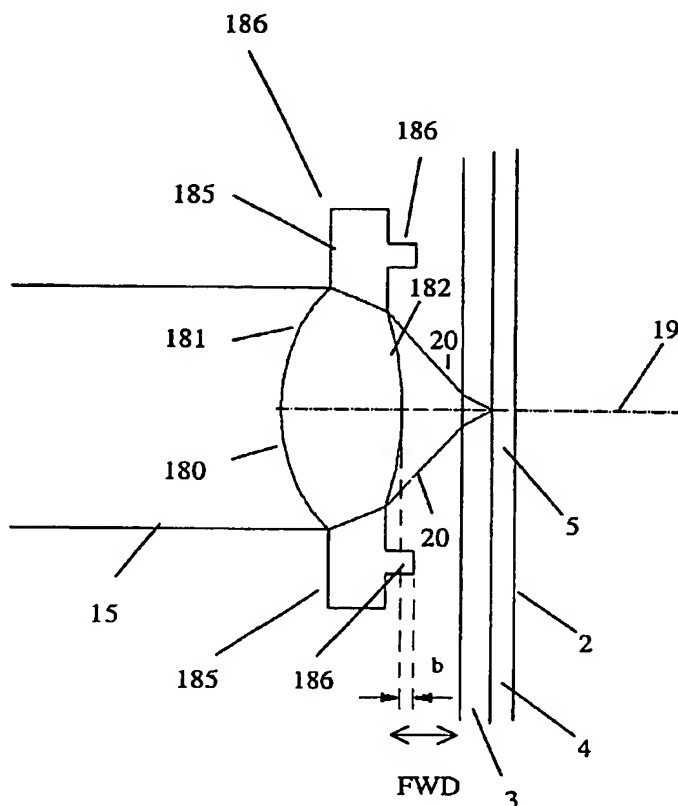
[JP/JP]; 26-2, Nishishinjuku 1-Chome, Shinjuku-ku, Tokyo (JP). **YAGI, Katsuya** [JP/JP]; 26-2, Nishishinjuku 1-chome, Shinjuku-ku, Tokyo (JP). **HENDRIKS, Bernardus, H., W.** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **SCHLEIPEN, Johannes, J., H., B.** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **VAN AS, Marco, A., J.** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agent: **VISSER, Derk**; Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

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[Continued on next page]

(54) Title: SCANNING DEVICE INCLUDING AN OBJECTIVE SYSTEM WITH A LENS PROTECTION DEVICE



(57) Abstract: An optical scanning device (1) for scanning an information layer (4) of an optical record carrier (2), the device (1) comprising a radiation source (11) for generating a radiation beam (12, 15, 20) and an objective system (18) for converging the radiation beam on the information layer, the information layer being covered by a transparent layer (3) of thickness t_d and refractive index n_d . The objective system comprises a lens having a protection device projecting away from the lens towards the optical record carrier such that the distance between the protection device and the optical record carrier is less than the free working distance. The lens satisfies the condition: where D is the entrance pupil diameter, FWD is the free working distance, and D , FWD , t and t_d are all expressed in millimeters and where $FWD + t_d/n_d < 0.51$.



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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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EPO-Internal, WPI Data, PAJ

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Annibal, P

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